

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 1 206 141 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
21.04.2004 Bulletin 2004/17

(51) Int Cl.7: H04N 9/82

(43) Date of publication A2:
15.05.2002 Bulletin 2002/20

(21) Application number: 01309390.1

(22) Date of filing: 06.11.2001

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 13.11.2000 JP 2000345401

(71) Applicant: Sony Corporation
Tokyo 141-0001 (JP)

(72) Inventor: Sato, Masahiko, c/o Sony Corporation
Tokyo (JP)

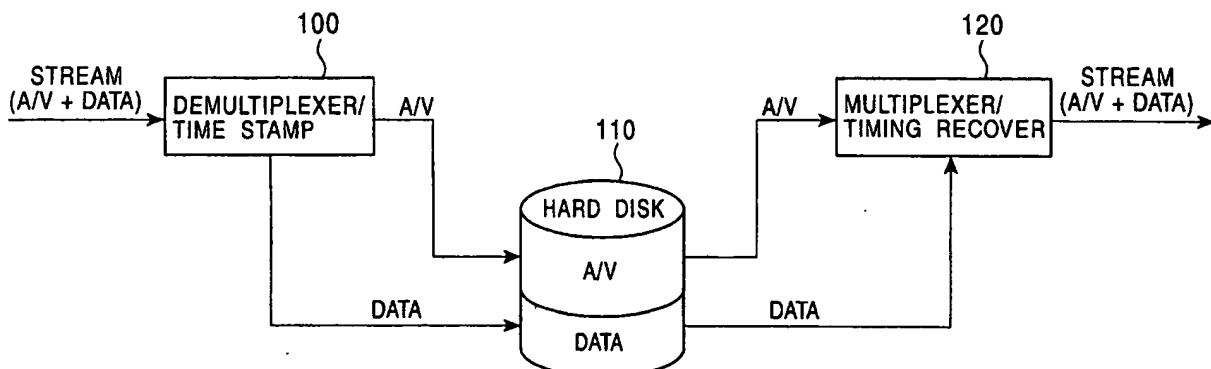
(74) Representative:
Robinson, Nigel Alexander Julian et al
D. Young & Co.,
21 New Fetter Lane
London EC4A 1DA (GB)

(54) Digital-broadcast recording/playback apparatus

(57) A digital-content recording/playback apparatus separately records content and an A/V stream and plays back the separately recorded content and A/V stream.

When separately recording the content and the A/V stream, a time at which the transmission of the content ends is added, as a time stamp which can be synchronized with the A/V stream, to the content.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 01 30 9390

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.)						
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim							
P, Y	EP 1 128 674 A (TOKYO BROADCASTING SYST ;HARADA SATOSHI (JP)) 29 August 2001 (2001-08-29) * the whole document * & WO 00 28737 A (TOKYO BROADCASTING SYSTEM INC.) 18 May 2000 (2000-05-18) ---	1-6	H04N9/82						
Y	WO 98 48566 A (MANKOVITZ ROY J ;GEMSTAR DEV CORP (US)) 29 October 1998 (1998-10-29) * page 4, line 34 - page 5, line 29 * * figure 1 * ---	1-6							
A	WO 00 01149 A (NDS LTD ;WACHTFOGEL REUVEN (IL); KIPNIS SHLOMO (IL); TSURIA YOSSEF) 6 January 2000 (2000-01-06) * abstract * * page 4 * * page 12, paragraph 2 * * page 13, paragraph 4 * * page 14, paragraph 4 - page 15, paragraph 1 * * page 17 * * page 24, paragraph 5 - paragraph 6 * * page 27, paragraph 1 - paragraph 2 * * page 28, paragraph 5 * * page 33, paragraph 1 * ---	1-6							
A	EP 0 804 028 A (SONY CORP) 29 October 1997 (1997-10-29) * page 6, line 30 - line 35 * * figures 1-3,7 * ---	1-6	H04N G11B						
		-/-							
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Place of search</th> <th style="width: 33%;">Date of completion of the search</th> <th style="width: 34%;">Examiner</th> </tr> <tr> <td>THE HAGUE</td> <td>3 March 2004</td> <td>Braga, J</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	3 March 2004	Braga, J
Place of search	Date of completion of the search	Examiner							
THE HAGUE	3 March 2004	Braga, J							
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : technological background O : non-written disclosure P : intermediate document S : member of the same patent family, corresponding document							
EP FORM 1503/02 (P44001)									



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 9390

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	<p>"INFORMATION TECHNOLOGY - GENERIC CODING OF MOVING PICTURES AND ASSOCIATED AUDIO INFORMATION: SYSTEMS" INTERNATIONAL STANDARD, NEW YORK, NY, US, 15 April 1996 (1996-04-15), pages I-XY,1-119, XP000667435 * paragraph [2.1.42] * * page 9 * * page 11 * * figure F2 *</p> <p>-----</p>	5,6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	3 March 2004	Braga, J	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 01 30 9390

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

03-03-2004

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1128674	A	29-08-2001	AU EP CN WO	1078100 A 1128674 A1 1324544 T 0028737 A1	29-05-2000 29-08-2001 28-11-2001 18-05-2000
WO 9848566	A	29-10-1998	AU EP JP WO	7684198 A 0978198 A2 2001501068 T 9848566 A2	13-11-1998 09-02-2000 23-01-2001 29-10-1998
WO 0001149	A	06-01-2000	AT AU AU CA CN DE DE DK EP EP EP EP EP EP EP ES GB WO NZ US	230912 T 758092 B2 4388999 A 2300979 A1 1273741 T 69904799 D1 69904799 T2 1013088 T3 1180768 A2 1235223 A2 1335593 A2 1013088 A1 2189430 T3 2339503 A 0001149 A1 503002 A 2003088872 A1	15-01-2003 13-03-2003 17-01-2000 06-01-2000 15-11-2000 13-02-2003 20-11-2003 24-02-2003 20-02-2002 28-08-2002 13-08-2003 28-06-2000 01-07-2003 26-01-2000 06-01-2000 28-06-2002 08-05-2003
EP 0804028	A	29-10-1997	EP JP US WO JP	0804028 A1 3401789 B2 6233735 B1 9718672 A1 9200729 A	29-10-1997 28-04-2003 15-05-2001 22-05-1997 31-07-1997